

APTIMA Assay for Chlamydia trachomtias - Expanded Indication: ThinPrep Specimens

### GEN-PROBE® APTIMA® Assay for Chlamydia trachomatis

JUL 2 5 2006

### **General Information**

Submitted By:

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Trade Name:

GEN-PROBE® APTIMA® Assay for Chlamydia trachomatis

Common or Usual Name:

rRNA target-amplified nucleic acid probe test for the in vitro

diagnostic detection of Chlamydia trachomatis

**Classification Name:** 

DNA Probe, Nucleic Acid Amplification, Chlamydia

**Classification Code:** 

Medical Specialty: Microbiology

**Product Code:** MKZ

**Registration Number:** CFR 866.3120

Device Class: 1

Description: Reagents used to identify chlamydia directly from clinical specimens or cultured isolates derived from clinical specimens. The identification aids in the diagnosis of disease caused by bacteria belonging to the genus Chlamydia and provides epidemiological information on these diseases. Chlamydia are the causative agents of psittacosis (a form of pneumonia), lymphogranuloma venereum (a venereal disease), and trachoma (a chronic disease of the eye and eyelid).

### **Substantially Equivalent Device:**

GEN-PROBE® APTIMA® Assay for Chlamydia trachomatis

### **Device Description**

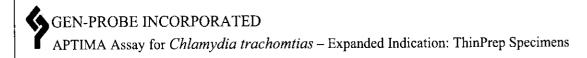
Clearance of this premarket notification extends the clinical performance claims of the commercially available GEN-PROBE APTIMA Assay for *Chlamydia trachomatis* to include PreservCyt liquid Pap specimens (collected and processed by the Cytyc ThinPrep 2000 Processor) as acceptable testing specimens. The ancillary kit formulated for this specific application is the commercially available GEN-PROBE APTIMA Specimen Transfer Kit. The components of the APTIMA Specimen Transfer Kit include: (1) a transport tube containing transport media with a penetrable cap and (2) specific instructions for use regarding decontamination and specimen processing procedures. The APTIMA Specimen Transfer Kit may only be used in conjunction with GEN-PROBE APTIMA Assays for the detection of *Chlamydia trachomatis* and/or *Neisseria gonorrhoeae*.

### Intended Use

### APTIMA Assay for Chlamydia trachomatis package insert:

The APTIMA Assay for *Chlamydia trachomatis* is a target amplification nucleic acid probe test that utilizes target capture for the *in vitro* qualitative detection of ribosomal RNA (rRNA) from *Chlamydia trachomatis* (CT) in clinician-collected endocervical, vaginal and male urethral swab specimens, patient-collected vaginal swab specimens, and female and male urine specimens. The assay is also intended for use with the testing of gynecological specimens collected in the PreservCyt® Solution and processed with the Cytyc ThinPrep® 2000 System. The assay may be used to test specimens from symptomatic and asymptomatic individuals to aid in the diagnosis of chlamydial urogenital disease.

<sup>&</sup>lt;sup>1</sup> Patient-collected vaginal swab specimens are an option for screening women when a pelvic exam is not otherwise indicated. The vaginal swab specimen collection kit is not for home use.



### Ancillary Kit package insert:

The GEN-PROBE APTIMA Specimen Transfer Kit is only for use with GEN-PROBE APTIMA Assays for the detection of *Chlamydia trachomatis* and/or *Neisseria gonorrhoeae*. The GEN-PROBE APTIMA Specimen Transfer Kit allows for APTIMA Assay testing of gynecological specimens collected and processed by the Cytyc ThinPrep 2000 Processor according to the instructions provided.

### APTIMA Assay for Chlamydia trachomatis

A complete description of the APTIMA Assay for *Chlamydia trachomatis* is provided in the commercialized package insert.

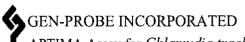
## **Summary of Non-Clinical (Analytical Laboratory) Performance Data**

### Limit of Detection (Analytical Sensitivity)

C. trachomatis analytical sensitivity (limit of detection) was determined by directly comparing dilutions of CT organisms in cell culture and in the APTIMA CT assay. The analytical sensitivity claim for the assay is one Inclusion-Forming Unit (IFU) per assay (7.25 IFU/swab, 5 IFU/mL urine, and 9.75 IFU/mL PreservCyt Solution liquid Pap) for all 15 CT serovars. However, dilutions of less than one IFU/assay of all serovars tested positive.

## **Analytical Specificity**

A total of 154 culture isolates were evaluated using the APTIMA CT Assay. These isolates included 86 organisms that may be isolated from the urogenital tract and 68 additional organisms that represent a phylogenetic cross-section of organisms. The tested organisms included bacteria, fungi, yeast, parasites and viruses. All organisms except *C. psittaci, C. pneumoniae, U. urealyticum* and the viruses were tested at  $1.0 \times 10^6$  cells/assay in Kova-trol/Urine Transport Media and 60 organisms were tested in Swab Transport Media. The Chlamydia and Neisseria organisms were tested in the PreservCyt Solution media. *C. psittaci* VR601 was tested at  $8 \times 10^4$  cells/assay and *C. psittaci* VR125 was tested at  $1 \times 10^5$  cells/assay. *C. pneumoniae*was tested at  $4 \times 10^3$  cells/assay and U. urealyticum was tested at  $6.7 \times 10^6$  cells/assay. The viruses were tested as follows: (a) herpes simplex virus I:  $2.5 \times 10^4$  TCID<sub>50</sub>/assay, (b) herpes simplex virus II:  $6.0 \times 10^4$  TCID<sub>50</sub>/assay, (c) human papillomavirus  $16: 2.9 \times 10^6$  DNA copies/assay and (d) cytomegalovirus:  $4.8 \times 10^5$  cells/assay. The list of organisms tested is shown in Table 1.



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Table 1 - APTIMA CT Assay Analytical Specificity

ORGANISM	ORGANISM	ORGANISM
Achromobacter xerosis	Escherichia coli	Neisseria mucosa (3)
Acinetobacter calcoaceticus	Flavobacterium meningosepticum	Neisseria sicca (3)
Acinetobacter Iwoffi	Fusobacterium nucleatum	Neisseria subflava (14)
Actinomyces israelii	Gardnerella vaginalis	Neisseria perflava
Actinomyces pyogenes	Gemella haemolysans	Neisseria polysaccharea
Aerococcus viridans	Haemophilus ducreyi	Paracoccus denitrificans
Aeromonas hydrophila	Haemophilus influenzae	Peptostreptococcus anaerobius
Agrobacterium radiobacter	Herpes simplex virus I	Peptostreptococcus productus
Alcaligenes faecalis	Herpes simplex virus II	Plesiomonas shigelloides
Bacillus subtilis	Human papilloma virus 16	Propionibacterium acnes
Bacteriodes fragilis	Kingella dentrificans	Proteus mirabilis
Bacteriodes ureolyticus	Kingella kingae	Proteus vulgaris
Bifidobacterium adolescentis	Klebsiella oxytoca	Providencia stuartii
Bifidobacterium brevi	Klebsiella pneumoniae	Pseudomonas aeruginosa
Branhamella catarrhalis	Lactobacillus acidophilus	Pseudomonas fluorescens
Brevibacterium linens	Lactobacillus brevis	Pseudomonas putida
Campylobacter jejuni	Lactobacillus jensonii	Rahnella aquatilis
Candida albicans	Lactobacillus lactis	Rhodospirillum rubrum
Candida glabrata	Legionella pneumophila (2)	Saccharomyces cerevisiae
Candida parapsilosis	Leuconostoc paramensenteroides	Salmonella minnesota
Candida tropicalis	Listeria monocytogenes	Salmonella typhimurium
Chlamydia pneumoniae	Micrococcus luteus	Serratia marcescens
Chlamydia psittaci (2)	Moraxella lacunata	Staphylococcus
		saprophyticus
Chromobacterium violaceum	Moraxella osloensis	Staphylococcus aureus
Citrobacter freundii	Morganella morganii	Staphylococcus epidermidis
Clostridium perfringens	Mycobacterium smegmatis	Streptococcus agalactiae
Corynebacterium genitalium	Mycoplasma genitalium	Streptococcus bovis
Corynebacterium xerosis	Mycoplasma hominis	Streptococcus mitis
Cryptococcus neoformans	N. meningitidis Serogroup A	Streptococcus mutans
Cytomegalovirus	N. meningitidis Serogroup B	Streptococcus pneumoniae
Deinococcus radiodurans	N. meningitidis Serogroup C (4)	Streptococcus pyogenes
Derxia gummosa	N. meningitidis Serogroup D	Streptococcus salivarius
Eikenella corrodens	N. meningitidis Serogroup Y	Streptococcus sanguis
Enterobacter aerogenes	N. meningitidis Serogroup W135	Streptomyces griseinus
Enterobacter cloacae	Neisseria cinerea (4)	Trichomonas vaginalis
Entercoccus avium	Neisseria dentrificans	Ureaplasma urealyticum
Entercoccus faecalis	Neisseria elongata (3)	Vibrio parahaemolyticus
Entercoccus faecium	Neisseria flava	Yersinia enterocolitica
Erwinia herbicola	Neisseria flavescens (2)	
Erysipelothrix rhusiopathiae	Neisseria lactamica (9)	

(n) = number of strains tested

All organisms tested produced a negative result in the APTIMA CT Assay.

### **Interference Studies**

The following interfering substances were individually spiked into swab, PreservCyt liquid Pap and/or urine specimens: 10% blood, contraceptive jelly, spermicide, moisturizer, hemorrhoidal anesthetic, body oil, powder, anti-fungal cream, vaginal lubricants, feminine spray and leukocytes (1x10<sup>6</sup> cells/mL). The following interfering substances were individually spiked into urine specimens: 30% blood, urine analytes, protein, glucose, ketones, bilirubin, nitrate, urobilinogen, pH 4 (acidic), pH 9 (alkaline), leukocytes (1x10<sup>6</sup> cells/mL), cellular debris, vitamins, minerals, acetaminophen, aspirin and ibuprofen. All were tested for potential assay interference in the absence and presence of CT at the estimated rRNA equivalent of 1 cell/assay (5 fg/assay). The rRNA equivalents were calculated based on the genome size and estimated DNA:RNA ratio/cell of each organism. No interference was observed with any of the tested substances. No inhibitors of amplification were observed in the APTIMA CT Assay.

### Recovery

Escherichia coli, Gardnerella vaginalis, Lactobacillus acidophilus, Bacteroides ureolyticus, and Staphylococcus epidermidis (1 x 10<sup>8</sup> cells/assay) were added to samples containing the rRNA equivalent of approximately one CT IFU (5 fg). These additions did not interfere with the amplification and detection of CT rRNA using the APTIMA CT Assay.

### Liquid Pap Specimen Stability Studies

Data to support the recommended shipping and storage conditions for PreservCyt Solution liquid Pap samples were generated with negative processed and unprocessed liquid Pap samples. For the unprocessed samples, four pools of PreservCyt Solution samples were tested after being stored in the Cytyc PreservCyt Solution vial. Each specimen pool was spiked with 1-10 IFU CT/assay, held at 2°C, 10°C, and 30°C, then tested at baseline and on days 5, 7, 8, 14, 18, 21, 25 and 36 depending on the storage

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temperature. All of the spiked samples were positive for CT at all times and temperatures.

For the processed samples, four pools of PreservCyt Solution samples were used to determine processed specimen stability at 2°C to 30°C. Each negative sample pool was spiked with 1-10 IFU CT/assay, then tested at baseline. Prior to processing, the PreservCyt Solution samples were stored at 30°C for seven (7) days to simulate the time lapse between sample collection, Pap processing and shipment to a microbiology testing lab. After seven days at 30°C, 1 mL aliquots of each pool were transferred to an APTIMA Specimen Transfer Tube and tested at baseline before being placed at 2°C, 10°C, and 30°C. The processed samples were then tested for 17 days stored at 30°C and 36 days stored at 2°C to 10°C. All of the spiked samples were positive for CT at all times and temperatures.

Data to support longer storage conditions were generated from four pools of negative processed PreservCyt Solution samples tested at below freezing temperatures. Each pool was spiked with 1-10 IFU CT/assay, then tested at baseline. Each pool was first placed at 30°C for 14 days and then stored at -20°C or -70°C over the course of 106 days. All of the spiked samples were positive for CT at all times and temperatures.

### Precision

PreservCyt specimen within-laboratory precision with the ACT Assay was determined by spiking PreservCyt vials with 20 CT IFU per vial (0.1 IFU per reaction) and 100 CT IFU per vial (0.5 IFU per reaction). Vials containing 1,000 CT IFU per vial (5 IFU per reaction) and unspiked PreservCyt vials were tested as positive and negative controls. Ten vials spiked at each IFU level and ten unspiked vials were divided between two operators. The operators vortexed the vials and then transferred 14 aliquots (1.0 mL each) per vial into 14 APTIMA Transfer Tubes as per the APTIMA Specimen Transfer Kit package insert. The operators were blinded to the samples' titers. Each of the resulting Pap-STM samples was tested once in the ACT Assay. A total of five runs were

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performed over a five-day period for 140 results at each IFU level. The results are summarized in Table 2.

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Table 2: APTIMA CT Assay Within-Laboratory Precision Data for PreservCyt Using a 4-Member Precision Panel Containing 0 to 1000 IFU/20 mL of CT Cells.

anel	Panel   IFU/20mL	IFU/	t	Accepted	, o,	Mean	Within-Operator	регатог	Between-Day	n-Day	Between- Operator	een- ator	Total	<u></u>
mber	Member PreservCyt	ıxı		Agleed	Agrmt.	KLU (x1000)	SD (x1000)	CV (%)	SD (x1000)	CV (%)	SD (x1000)	CV (%)	SD (x1000)	CV (%)
A	20	0.1	140	140	100	6501.7	734.8	11.3	0	0.0	546.9	8.4	916	14.1
В	100	5.0	140	138*	98.6	6337.7	1054.7	16.6	0	0.0	947.2	14.9	1417.6	22.4
C	1000	5	140	140	100	6521.9	606	13.9	247.1	3.8	393.9	9	1021	15.7
D	0	0	140	140	100	1.2	8.0	N/A	0	A/N	0.4	N/A	6.0	N/A

\* discordant results were one negative result and 1 equivocal result

Note: Variability from some factors may be numerically negative, which can occur if the variability due to those factors is very small. When this occurs, the variability as measured with SD and %CV is set to zero (16). N/A = not applicable for negative panel members. Operator = Run. Samples with discordant results were included in the signal variability analysis.

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### PreservCyt Liquid Pap Specimen Clinical Study Results

A prospective multi-center clinical study was conducted to evaluate the use of the PreservCyt Solution (a component of the ThinPrep 2000 System) as an alternative medium for gynecological specimens for the detection of CT by the APTIMA CT Assay. One thousand six hundred forty-seven (1,647) symptomatic and asymptomatic female subjects attending OB/GYN, family planning, public health, women's, and STD clinics were evaluated in the clinical study. Of the 1,647 evaluable subjects, 1,288 were asymptomatic subjects and 359 were symptomatic subjects. Subjects were enrolled from sites with CT prevalence that ranged from 2.8% to 14.0%.

Two specimens were collected from each eligible subject: one PreservCyt Solution liquid Pap specimen and one endocervical swab specimen. PreservCyt Solution liquid Pap specimens were collected with the spatula/cyto-brush or a broom-like brush cervical sampling device. The distribution of cervical sampling devices is summarized in Table 3 by specimen collection site and overall.

PreservCyt Solution liquid Pap specimens were processed in accordance with the ThinPrep 2000 Processor Operator's Manual and APTIMA Specimen Transfer Kit Package Insert. After processing the PreservCyt Solution liquid Pap specimen with the ThinPrep 2000 Processor, the specimen was transferred into the APTIMA Specimen Transfer Kit for testing with the APTIMA CT Assay.

Sensitivity and specificity of the APTIMA CT Assay in PreservCyt Solution liquid Pap specimens were calculated by comparing results to a patient infected status algorithm. The algorithm included APTIMA Combo 2 Assay and APTIMA CT Assay results in endocervical swab specimens. Both reference NAATs were required to be positive to establish an infected patient status. At least one reference NAAT was required to be negative to establish a non-infected patient status. Table 4 summarizes the frequency of test outcomes for the two reference NAATs.

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Table 5 shows the sensitivities and specificities of the APTIMA CT Assay by symptom status and overall. Overall sensitivity was 95.6% (86/90). In symptomatic and asymptomatic subjects, sensitivities were 96.7% (29/30) and 95.0% (57/60), respectively. Overall specificity was 98.8% (1539/1557). In symptomatic and asymptomatic subjects, specificities were 98.8% (325/329) and 98.9% (1214/1228), respectively.

Table 6 shows the sensitivities and specificities of the APTIMA CT Assay by specimen collection site and overall. Sensitivities ranged from 92.9% to 100%. Specificities ranged from 96.5% to 100%.

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Table 3: Distribution of Cervical Sampling Device Used for PreservCyt Liquid Pap Specimens

Carvical Sampling Davice Head			Clinical Co	Clinical Collection Site			Total
Page solica Rigidino nocido	+	2	3	4	5	9	P 0
Spatula/Cytobrush	0	124	475	287	29	364	1307
Broom-Type Device	100	0	0	0	240	0	340

Table 4: PreservCyt Solution Liquid Pap Specimen Analysis for Patient Infected Status

	Endocervical Swab	ical Swab	Sympto	Symptom Status
Patient Infected Status	APTIMACOMBO 2Assay	APTIMA CT Assay	Symptomatic	Asymptomatic
Infected	Positive	Positive	30	09
Non-Infected	Negative	Negative	322	1214
Non-Infected	Negative	Positive	4	12
Non-Infected	Positive	Negative	3	2
Total			359	1288

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Table 5: Sensitivity and Specificity of the APTIMA CT Assay Relative to Patient Infected Status by Symptom Status and Overall for PreservCyt Solution Liquid Pap Specimens.

	APTIMA CT PreservCyt Solution result	+;+	+/-	+}-	-}-	Sensitivity (%) (95% CI)	Specificity (%) (95% CI)
	Positive	29	0	1	3		
Symptomatic	Negative	1	3	3	319	96.7 (29/30) (82.8 – 99.9)	98.8 (325/329) (96.9 – 99.7)
	Total	30	3	4	322		
	Positive	29	0	١	13		
Asymptomatic	Negative	3	2	11	1201	95.0 (57/60) (86.1 – 99.0)	98.9 (1214/1228) (98.1 –99.4)
	Total	09	2	12	1214		
	Розіті	98	0	2	16		
All	Negative	4	5	14	1520	95.6 (86/90) (89.0 – 98.8)	98.8 (1539/1557) (98.2 - 99.3)
	Total	06	5	16	1536		ny 

+/+ = Positive endocervical swab specimen result in the APTIMA COMBO 2 Assay/Positive endocervical swab specimen result in the APTIMA CT Assay +/- = Positive endocervical swab specimen result in the APTIMA COMBO 2 Assay/Negative endocervical swab specimen result in the APTIMA COMBO 2 Assay/Positive endocervical swab specimen result in the APTIMA COMBO 2 Assay/Positive endocervical swab specimen result in the APTIMA COMBO 2 Assay/Positive endocervical swab specimen result in the APTIMA CT Assay

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Table 6: Sensitivity, Specificity and Predictive Values of the APTIMA CT Assay Relative to Patient Infected Status by Clinical Site and Overall for PreservCyt Solution Liquid Pap Specimens

(%) AdN		100			100			99.5			100			9.66			99.7			99.7	
PPV (%)		82.4			100			82.9			66.7			81.3			0.06			82.7	
Specificity (%) (95% C.I.)		96.5 (83/86) (90.1 – 99.3)			100 (120/120) (97.0 – 100)			98.6 (438/444) /97.1 = 99.5)	(a)		98.6 (275/279)			98.9 (280/283) (96.9 – 99.8)	-		99.4 (343/345) (97.9 – 99.9)		98 8 (1539)	1557)	(98.2 – 99.3)
Sensitivity (%) (95% C.I.)		100 (14/14) (76.8 – 100)	3		100 (4/4) (39.8 – 100)	*		93.5 (29/31) (78.6 – 99.2)			100(8/8) (63.1 – 100)			92.9 (13/14) (66.1 – 99.8)	•		94.7 (18/19) (74.0 – 99.9)	-		95.6 (86/90) (89.0 - 98.8)	
Prev (%)		14.0			3.2			6.5			2.8			4.7			5.2			5.5	
4	7	83	85	0	118	118	9	436	442	4	271	275	3	275	278	1	337	338	16	1520	1536
<del>;</del>	-	0	١,	0	7	2	0	2	2	0	٦	1	0	4	4	1	5	9	7	14	16
7+	0	0	0	0	O	0	0	0	0	0	3	E	0	1	1	0	1	1	0	5	5
<del>+</del> <del>+</del> <del>+</del>	14	0	14	Þ	0	4	29	2	31	8	0	8	13	1	14	18	<del>/</del>	19	86	4	06
APTIMA CT PreservCyt Solution Result	Positive	Negative	Total	Positive	Negative	Total	Positive	Negative	Total	Positive	Negative	Total	Positive	Negative	Total	Positive	Negative	Total	Positive	Negative	Total
Site		-			2			က			4			ĸ			9			ই	

+,+ = Positive endocervical swab specimen result in the APTIMA COMBO 2 Assay/Positive endocervical swab specimen result in the APTIMA CT Assay +,- = Positive endocervical swab specimen result in the APTIMA COMBO 2 Assay/Positive endocervical swab specimen result in the APTIMA COMBO 2 Assay/Positive endocervical swab specimen result in the APTIMA COMBO 2 Assay/Positive endocervical swab specimen result in the APTIMA COMBO 2 Assay/Positive endocervical swab specimen result in the APTIMA CT Assay.

### Prevalence

The prevalence of CT in patient populations depends on risk factors such as age, gender, the presence of symptoms, the type of clinic, and the test method. A summary of the prevalence of CT, for PreservCyt specimens, is shown in Table 7.

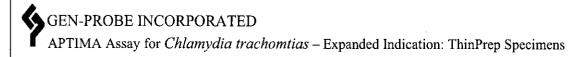
Table 7: Prevalence of *C. trachomatis* by Clinical Site and Overall as Determined by APTIMA CT Assay Results Using PreservCyt Solution Liquid Pap Specimens

Site	% (#pos	itive / #tested)
1	17.0	(17/100)
2	3.2	(4/124)
3	7.4	(35/475)
4	4.2	(12/287)
5	5.4	(16/297)
6	5.5	(20/364)
All	6.3	(104/1647)

### Conclusions from Non-Clinical and Clinical Data

The non-clinical and clinical study results support the use of PreservCyt liquid Pap specimens collected and processed by the Cytyc ThinPrep 2000 Processor in the currently marketed GEN-PROBE APTIMA Assay for *Chlamydia trachomatis*. The currently marketed GEN-PROBE APTIMA Specimen Transfer Kit provides necessary materials and instructions to allow for the testing of PreservCyt liquid Pap specimens in the APTIMA CT Assay.

The results of the clinical study demonstrate reasonable evidence that when the APTIMA CT Assay and the APTIMA Specimen Transfer Kit are labeled as proposed, the APTIMA CT Assay continues to be safe and effective for its stated intended use.



## **Contraindications and Cautions**

There are no contraindications or cautions.



Food and Drug Administration 2098 Gaither Road Rockville MD 20850

# JUL 25 2006

Brian Shea, RAC Regulatory Affairs Associate Gen-Probe Incorporated 10210 Genetic Center Drive San Diego, CA 92121

Re: k053446

Trade/Device Name: GEN-PROBE® APTIMA® Assay for Chlamydia trachomatis

Regulation Number: 21 CFR 866.3120

Regulation Name: Chlamydia serological reagents

Regulatory Class: Class I Product Code: MKZ Dated: June 8, 2006 Received: June 9, 2006

Dear Mr. Shea:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in Title 21, Code of Federal Regulations (CFR), Parts 800 to 895. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Parts 801 and 809); and good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820).

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific information about the application of labeling requirements to your device, or questions on the promotion and advertising of your device, please contact the Office of In Vitro Diagnostic Device Evaluation and Safety at (240)276-0450. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <a href="http://www.fda.gov/cdrh/dsma/dsmamain.html">http://www.fda.gov/cdrh/dsma/dsmamain.html</a>.

Sincerely yours,

Sally A. Hojvat, M.Sc., Ph.D.

Sally antigran

Director

Division of Microbiology Devices
Office of In Vitro Diagnostic Device
Evaluation and Safety

Center for Devices and Radiological Health

Enclosure

## **Indications for Use**

510(k) Number (if known): <u>K053446</u>	
Device Name: <u>GEN-PROBE® APTIMA® Assay for</u>	or Chlamydia trachomatis
Indications For Use:	
The APTIMA Assay for <i>Chlamydia trachomatis</i> is probe test that utilizes target capture for the <i>in vitro</i> RNA (rRNA) from <i>Chlamydia trachomatis</i> (CT) in vaginal and male urethral swab specimens, patientand female and male urine specimens. The assay is of gynecological specimens collected in the Preserv Cytyc ThinPrep® 2000 System. The assay may be usymptomatic and asymptomatic individuals to aid in urogenital disease.	qualitative detection of ribosomal clinician-collected endocervical, collected vaginal swab specimens, lalso intended for use with the testing 'Cyt' Solution and processed with the used to test specimens from
Patient-collected vaginal swab specimens are an opelvic exam is not otherwise indicated. The vaginal for home use.	
Prescription Use \( \sqrt{21} \) AND/OR (Part 21 CFR 801 Subpart D)	Over-The-Counter Use(21 CFR 807 Subpart C)
	Diagnostic Devices (OIVD)  Le Solie La Foole  Division Sign-Off  Office of La Fitto Diagnostic Device  Evaluation and Surery

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